AMENDMENTS TO THE CLAIMS

This listing will replace all prior versions, and listings, of claims in the application:

1. (Original) A pressure transducer with a capillary tube filled with a fluid for high pressure measurements, said pressure transducer comprising

a sensitive element formed with a bore to define a cylindrical sensitive chamber, and

respective capillary tubes attached to either ends of the sensitive element in fluid communication with the sensitive chamber,

wherein each capillary tube has a respective end outside threaded to engage in a mating thread-way provided in the sensitive element, a perimeter weld being provided for safety around each capillary tube near the connection to the sensitive element.

2. (Original) A pressure transducer according to Claim 1, wherein at least a thread-way is formed in the bore.

3. (Currently amended) A pressure transducer according to Claim 1, wherein said sensitive element essentially comprises three cylindrical portions~~, viz. two end portions and a mid-portion formed with a flat surface for accommodating deformation sensors, with a second flat surface being formed in one of the end portions for accommodating additional deformation sensors~~ .

4. (Currently amended) A pressure transducer according to Claim 1, wherein the ends of the capillary tubes extend into ~~the~~ respective sockets threaded along a track that does not interfere with the interior of the sensitive chamber.

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5. (Currently amended) A pressure transducer according to Claim 1, wherein the sensitive element comprises a flat surface lying parallel to said sensitive chamber being separated from ~~the latter~~ said sensitive chamber by a thin partition.

6. (Original) A pressure transducer according to Claim 5, wherein said flat surface accommodates deformation sensors.

7. (Original) A pressure transducer according to Claim 5, wherein the sensitive element is substantially cylindrical in shape, and wherein said flat surface defines the bottom of a recess formed at the middle of the sensitive element .

8. (Original) A pressure transducer according to Claim 1, wherein the end of a capillary tube opposite to said sensitive element carries a fitting for connection to a pressurised chamber of an injection moulding machine, and wherein said fitting has a small membrane in contact with a fluid for the injection process.

9. (Original) A pressure transducer according to Claim 8, wherein said small membrane has a diameter of 6 mm.

10. (Original) A pressure transducer according to Claim 1 comprising a printed circuit board mounting electronic circuitry for detecting and/or processing the electric signal transmitted by said deformation sensors, said PC board extending parallel to the axis of the sensitive element inside a protective case.

11. (New) A pressure transducer according to Claim 3, wherein said three cylindrical portions comprise two end portions and a mid-portion formed with a flat surface for accommodating deformation sensors, with a second flat surface being formed in one of the end portions for accommodating additional deformation sensors .

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